

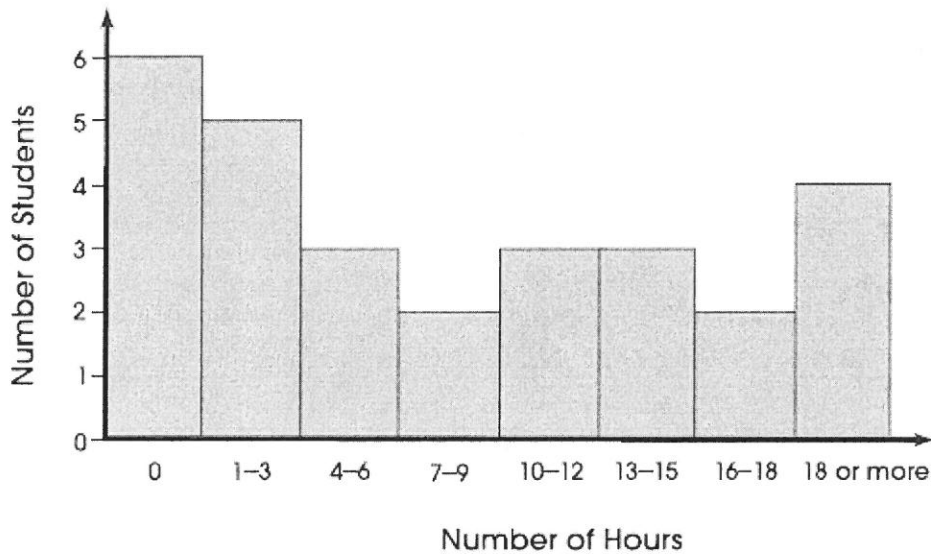
Blizzard Bag Math I

Day I

Name: _____ Date: _____ Block: 145

6. Last month members of a Fostoria youth group spent time doing community service. The graph shows the numbers of students who contributed certain hours of service.

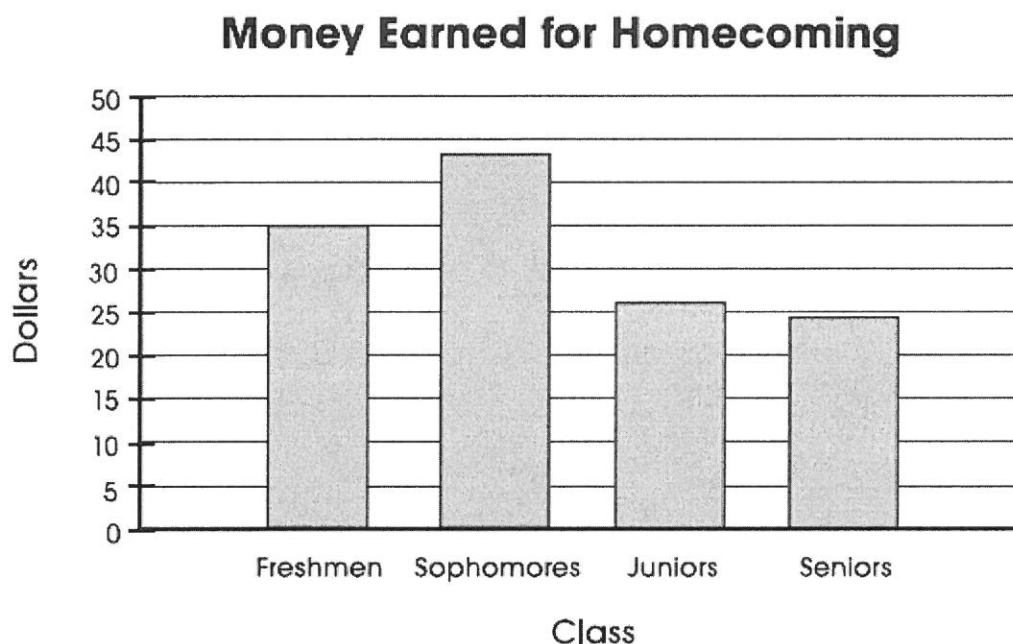
Fostoria Youth Group Community Service



How many members spent 10 or more hours in community service last month?

- A. 3
- B. 4
- C. 9
- D. 12

16. The students at Watertown High School are raising money for homecoming. The graph shows the amount of money each class has raised so far.



About what percentage of the money raised did the sophomore class earn?

- A. 25%
- B. 33%
- C. 43%
- D. 50%

22. Consider the following scores:

12, 56, 62, 66, 74, 83, 88, 90, 93, 96

If the outlier, 12, is removed from the set above, what is the approximate increase in the mean of the remaining scores?

- A. 3
- B. 7
- C. 12
- D. 84

24. The mean weight of the five returning members for Cardinal High School's wrestling team is 168 pounds. Three freshman wrestlers joined the team. If their weights are 140, 172 and 168 pounds, what is the mean weight of this year's team?

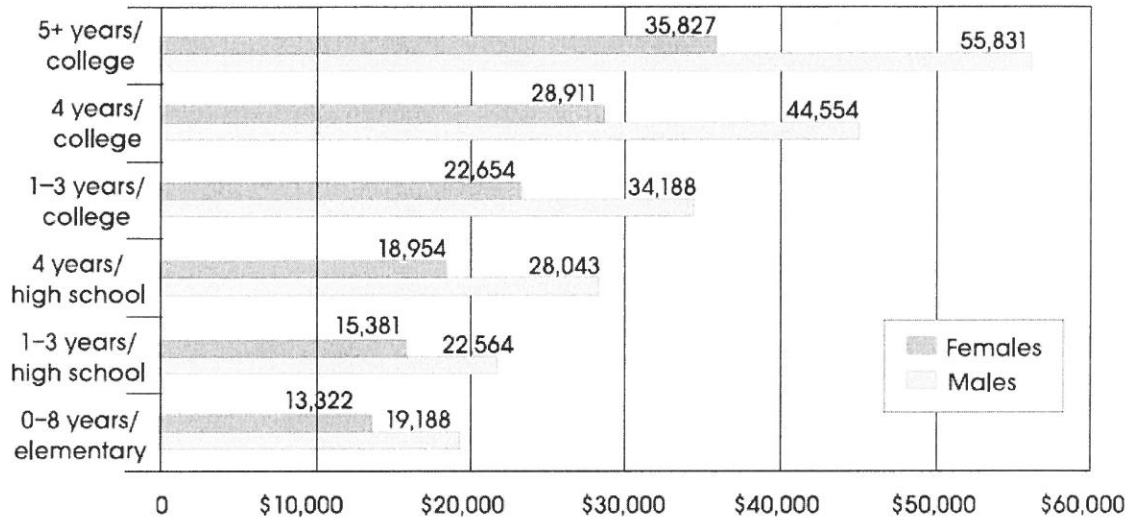
- A. 160 pounds
- B. 162 pounds
- C. 165 pounds
- D. 168 pounds

30. To demonstrate probabilities, a mathematics teacher had students draw marbles from a bag which contained 6 yellow marbles and 14 blue marbles. During class, the bag was dropped, and 2 yellow marbles and 2 blue marbles were lost.

In your **Answer Document**, tell whether the loss of marbles changes the probability of drawing a blue marble from the bag. If so, was the probability increased or decreased? Support your answer by calculating the probability for each situation.

34. The graph below compares earnings categorized by level of schooling for males and females.

Mean Money Earnings, by Educational Attainment and Gender, 1990

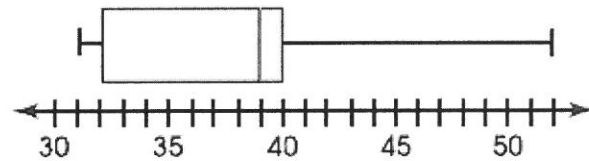


Which of the following statements is true based on the graph?

- A. Gender does not appear to have an impact on earnings.
- B. Education level does not appear to have an impact on earnings.
- C. The more educated a female, the wider the earnings gap between her and her male counterpart.
- D. As education level increases, the earnings gap narrows between males and females.

37. This box-and-whisker plot represents the average annual precipitation in Ohio over a ten-year period.

**Annual Precipitation in Inches in Ohio
1986–1995**



Which of these is the median rainfall for the ten-year period?

- A. 35.5 inches
- B. 39.1 inches
- C. 40.0 inches
- D. 42.6 inches

35. The table below shows the number of fish caught each day last week.

Number of Fish Caught Each Day

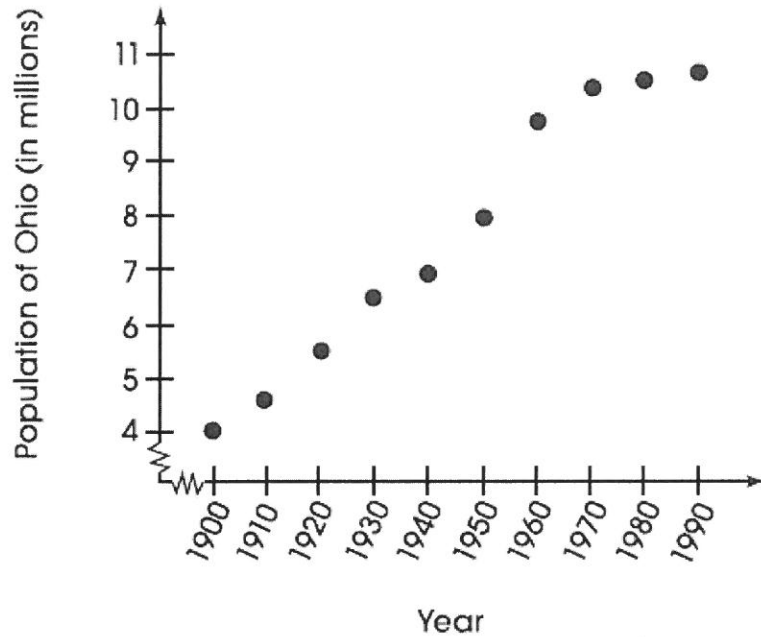
Day	Number of Fish Caught
Monday	4
Tuesday	0
Wednesday	3
Thursday	2
Friday	0
Saturday	0
Sunday	5

If one day of that week is chosen at random, what is the probability that a minimum of one fish was caught that day?

- A. $\frac{3}{7}$
- B. $\frac{1}{2}$
- C. $\frac{4}{7}$
- D. $\frac{2}{1}$

34. The graph shows the population of Ohio from 1900 to 1990.

Ohio Resident Population 1900 – 1990

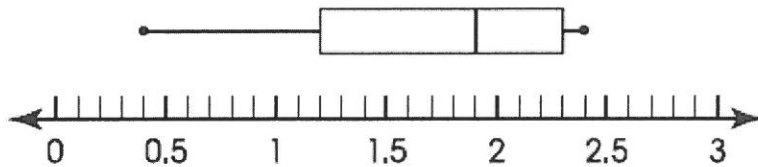


Based on the data, in which decade did the population of Ohio increase the most?

- A. 1910 to 1920
- B. 1940 to 1950
- C. 1950 to 1960
- D. 1960 to 1970

2. The box-and-whisker plot below describes the weights of a sample of 100 chickens.

Distribution of Weights of Chickens (lb)



What statement can be made about the data, using the graph alone?

- A. The range of the weights is 3 lb.
- B. The median weight is less than 2 lb.
- C. Twenty-five percent of the chickens weigh less than 1 lb.
- D. Fifty percent of the chickens weigh more than 2 lb.